

Lehmann & Voss LUVOCOM® 1301/CF/15/TF/5-1 PPS, linear, with carbon fiber and PTFE

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 10% Carbon Fiber Filler

Material Notes:

Applications: Automotive industry, textile-and office machinery, medical- and precision engineering.High continuous use and heat distortion temperature. Non flammable.High-strength and stiff parts with low creep.Electrically conductive, suitable for continuous discharging of statically generated electricity.Suitable for metall inserts.Information provided by Lehmann & Voss & Co.KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-1301CF15TF5-1-PPS-linear-with-carbon-fiber-and-PTFE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ISO 1183
Water Absorption	<= 0.050 %	<= 0.050 %	23°C/24h
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Stress	140 MPa	20300 psi	
Elongation at Yield	1.2 %	1.2 %	
	1.5 %	1.5 %	flexural
Modulus of Elasticity	15.0 GPa	2180 ksi	
Flexural Strength	200 MPa	29000 psi	
Flexural Modulus	13.0 GPa	1890 ksi	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	edgewise; ISO 179 1eU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	
	240 °C	464 °F	short term

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	
Insulation Resistance	<= 1.00e+6 ohm	<= 1.00e+6 ohm	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Nozzle Temperature	320 - 340 °C	608 - 644 °F	
Zone 1	300 - 320 °C	572 - 608 °F	
Zone 2	310 - 330 °C	590 - 626 °F	
Zone 3	320 - 340 °C	608 - 644 °F	
Mold Temperature	150 - 180 °C	302 - 356 °F	
Drying Temperature	50.0 - 90.0 °C	122 - 194 °F	
	@Time >=14400 sec	@Time >=4.00 hour	
	100 - 140 °C	212 - 284 °F	Dehumidifying dryer
	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Color	black	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China